HITACHI

Hitachi Displays, Ltd.

Date : Oct. 31, 2003

TECHNICAL DATA

TX80D12VC0CAB

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DESCRIPTION

The following specifications are applied to the following Super-TFT module.

Note : Inverter for back light unit is not built in this module.

Product Name : TX80D12VC0CAB

General Specifications

1. ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	Min.	Max.	Unit	Note

ITEM		SYMBOL	CONDITION	Min.	Typ.	Max.	UNIT	NOTE
Contrast Ratio		CR		350	500	-	-	2)
Response Time	Rise	ton		-	15		ms	3) , CTL:High

Note 1) Definition of Viewing Angle

ITEM	SYMBOL	Min.	Typ.	Max.	Unit	Note
Power Supply Voltage						

4. BLOCK DIAGRAM

(1) Super-TFT Module

(2) Back light unit

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5. INTERFACE PIN ASSIGNMENT

5. 1 TFT-LCD MODULE

CN1 : JAE   FI-SEB20P-HF13

(Matching connector : JAE FI-SE20M or equivalent)

Pin No.	Symbol	Description	Note
1	VDD	Power Supply (typ.+12V)	1)
2	VDD		
3	VSS	GND (0V)	2)
4	VSS		
5	Rx0-	Pixel Data	3)
6	Rx0+		
7	VSS	GND (0V)	2)
8	Rx1-	Pixel Data	3)
9	Rx1+		
10	VSS	GND (0V)	2)
11	Rx2-	Pixel Data	3)
12	Rx2+		
13	VSS	GND (0V)	2)
14	CLK-	Pixel Clock	3)
15	CLK+		
16	VSS	GND (0V)	2)
17	Rx3-	Pixel Data	3)
18	Rx3+		
19	VSS	GND (0V)	2)
20	CTL	Low:A line trace ON , High:A line trace OFF	4)

Notes

BLOCK DIAGRAM OF INTERFACE

LVDS Transmitter   LVDS Receiver

BLOCK DIAGRAM OF INTERFACE						
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Notes   1) RSVD(reserved) pins on the transmitter shall be "H" or "L".

CORRESPONDENCE BETWEEN INPUT DATA AND DISPLAY IMAGE

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RELATIONSHIP BETWEEN DISPLAY COLORS AND INPUT SIGNALS
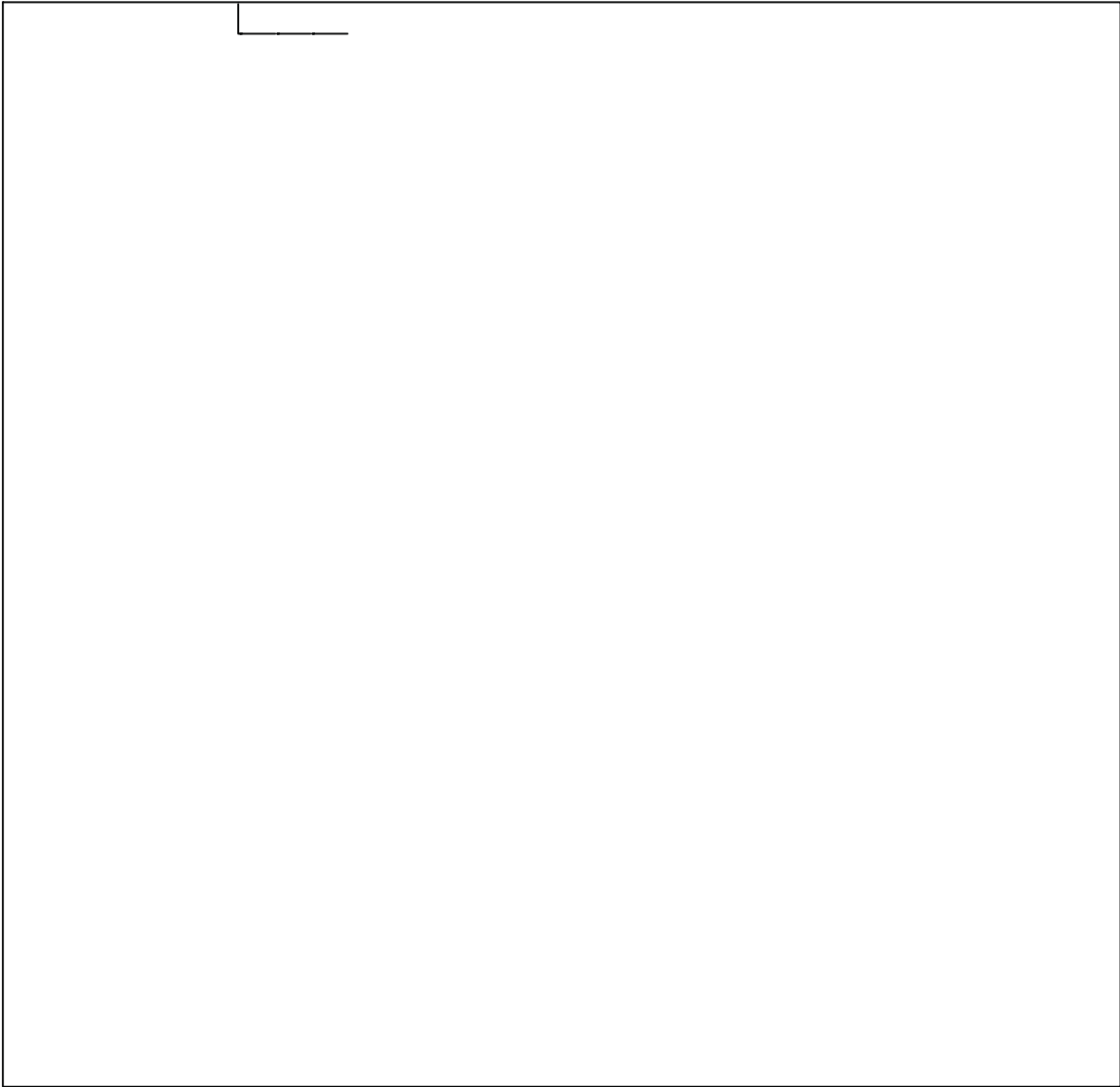
6. INTERFACE TIMING
6.1 TIMING CHART

Notes

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6.2 INTERFACE TIMING SPECIFICATIONS
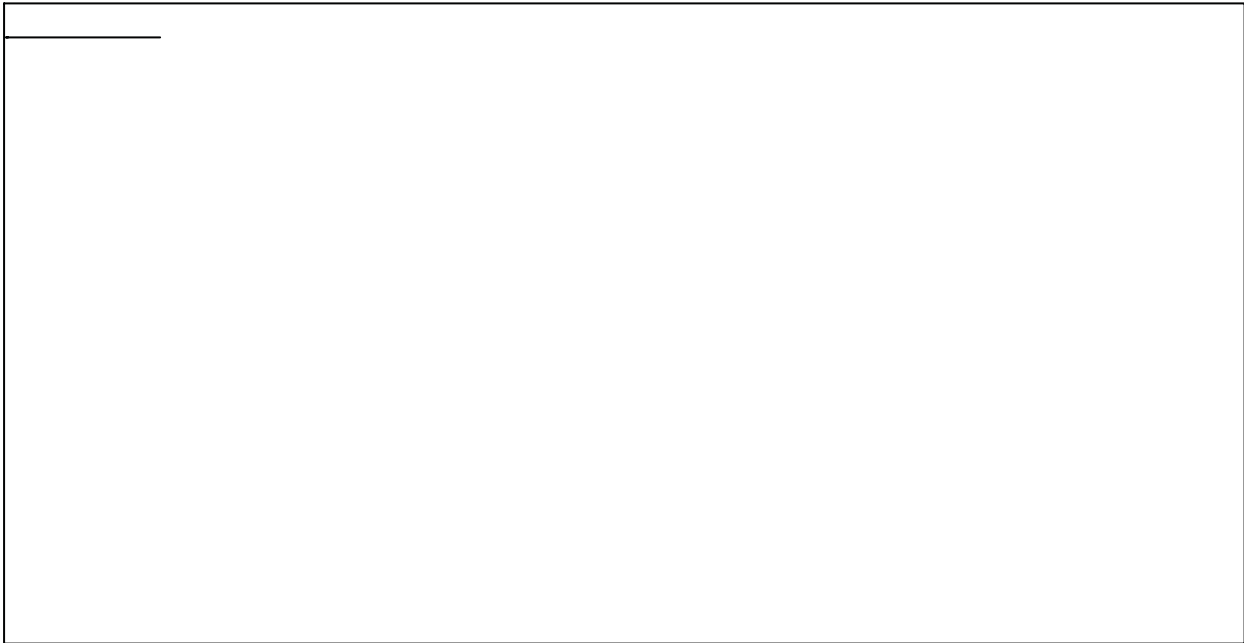
7. DIMENSIONAL OUTLINE

(1) FRONT VIEW

(201)
(329)
(411)
(539)

0

(25)

2-(21.7)

2-764±1
2-752±0.7
740±0.7
687.36±0.1(Active Area)

(26.3)
(26.3)

376

4-2.4±0.3
4-23.8±0.3
4-12±0.3
4-6±0.2

4-Ø5.8±0.3

61.1±0.5
(29.9)

175
(3.6)

(2)
(2)

4-(30)
4-60±0.3

Module Center

Display Area Center

465±0.5
2-350±0.5
412.42±0.1(Active Area)

(25)
(25)
(25)

(2)
(2)

(53.9)
(22.7)

NOTE 3)
30±0.7

(25)
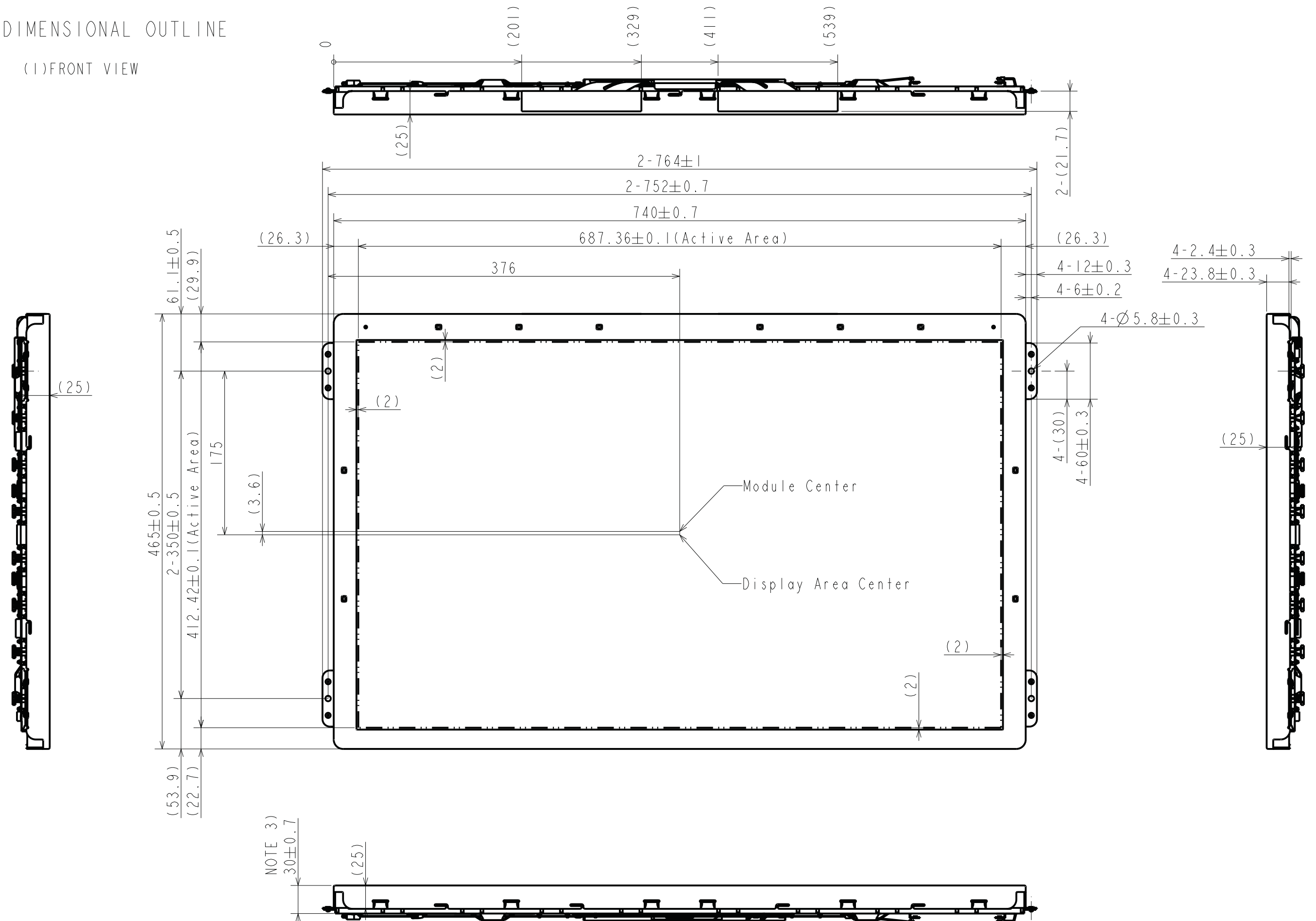
NOTE 1)Dimensions in parentheses are referense value.
   2)Tolerance not specified is ±0.8mm.
   3)Measure the values with 9.8×10^4Pa(1.0kgf/cm^2).

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(2)BACK VIEW

718
628 (626.3)
4-7
(548.5) 7.5±0.5
(492.5) (489)
(467)
(376)
(273) (263)
169.5±1
(98)
0

413±0.5

NOTE 5)
8-M3BR

19
0
CN2

NOTE 4)
4-M5BR

(50) CN3

4-∅3

NOTE 4)
4-M5BR

(100) CN4

CN10

CN1

(138)

(169) CN5
(181)

(213) CN6

CN11

(250) CN7

(300) CN8

(350) CN9
369

(36)
4-3
4-9
0
21±0.7
(35)
4-1
4-12
(81.5)
(85)
(135)
308±0.5
(215)

(37)
(37.5)
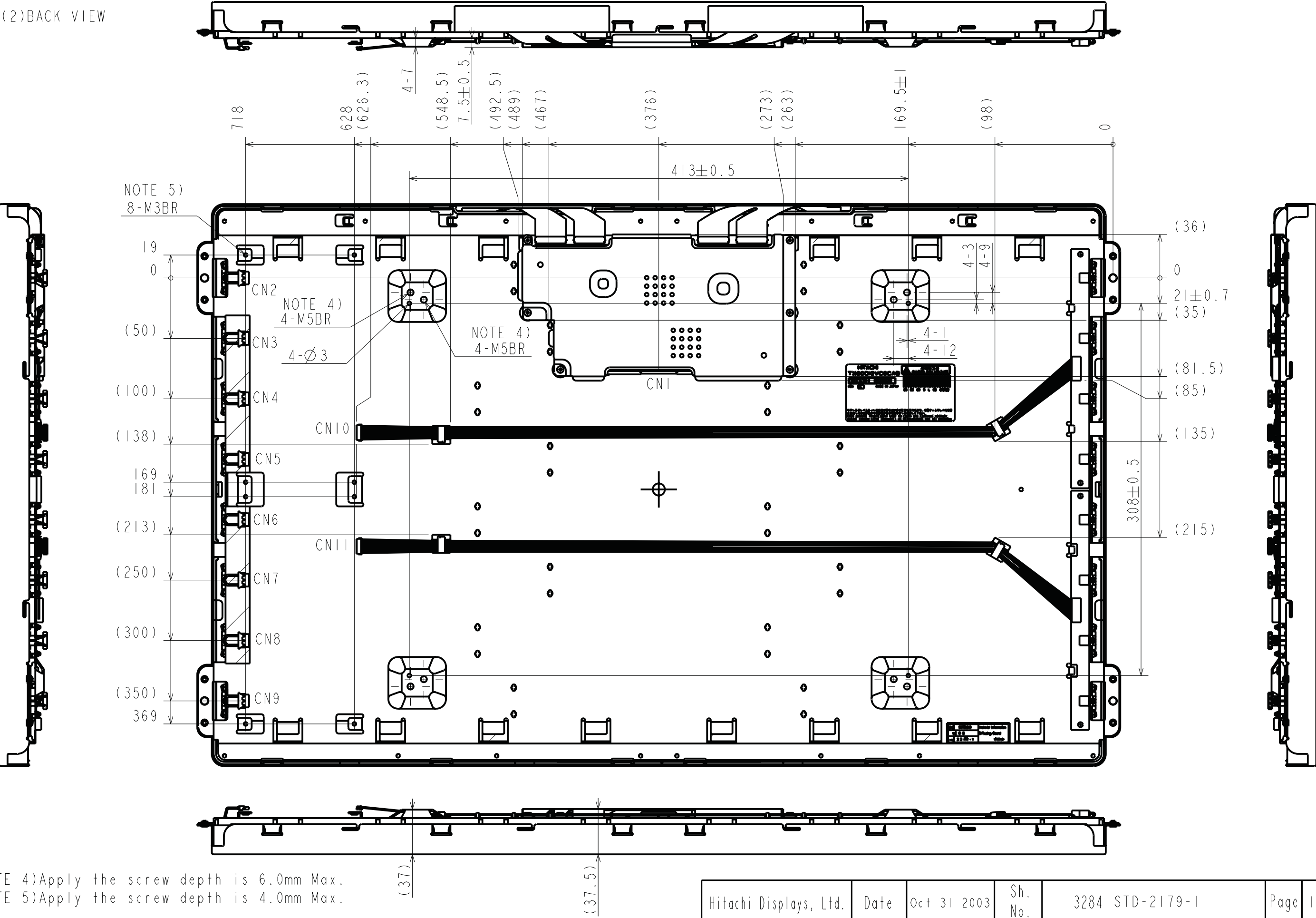
NOTE 4)Apply the screw depth is 6.0mm Max.
NOTE 5)Apply the screw depth is 4.0mm Max.

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6.3 TIMING BETWEEN INTERFACE SIGNALS AND POWER SUPPLY

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